Notebook PC User's Guide

Model: W810-DCX/ W810-UI1
Second Edition: June 2005

NOTICE

Specifications and information found in this manual are subject to change **without** notice. Any changes therefore will be incorporated in future editions. The manufacturer assumes **no** responsibility for errors or omissions in this document.

TRADEMARKS

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Standards

The following standards are adopted throughout this manual:

- Notebook in **boldface** (with or without capitalization) refers to the notebook computer that you have purchased.

- **Boldface** type is also used to highlight **important information** in this document.

- Whenever extra caution is called for, the information will be boxed in a dark frame preceded by "**Note:**" or "**Warning:**"

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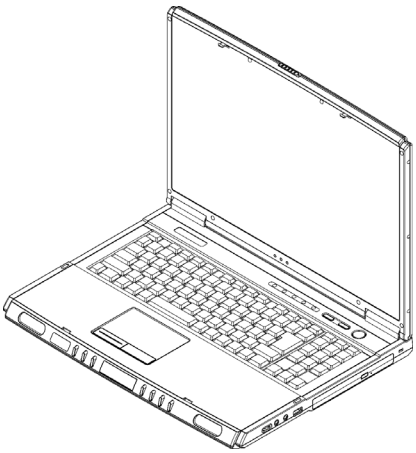
Chapter 1 Before You Begin

Please read this section before you start using your computer.

1.1 Checking What You Received

Your **notebook** package should contain the following items:



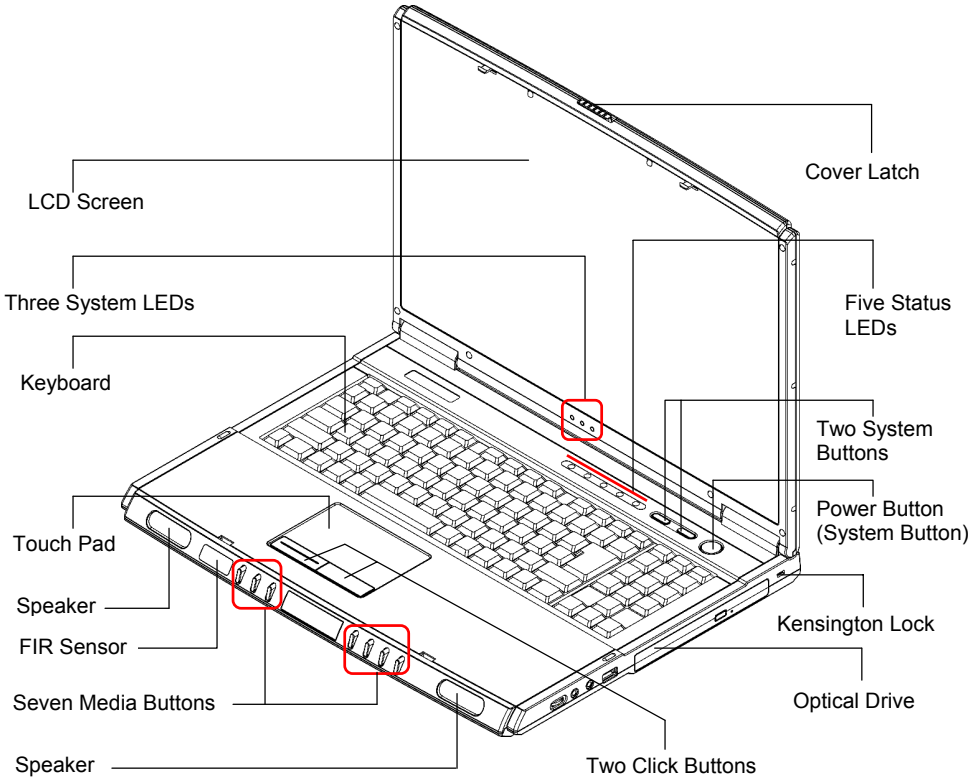
- **The Notebook**.
- AC Adapter.
- AC Power Cord.
- CD Disc (includes drivers and User's Guide).
- Battery Pack.
- Wireless LAN Mini-PCI Module (optional).
- TV Tuner Mini-PCI Module (optional).
- External TV Antenna (optional).
- Remote Control (optional).

Note: You should keep the original factory carton and packing materials in case you need to ship the unit back for servicing.

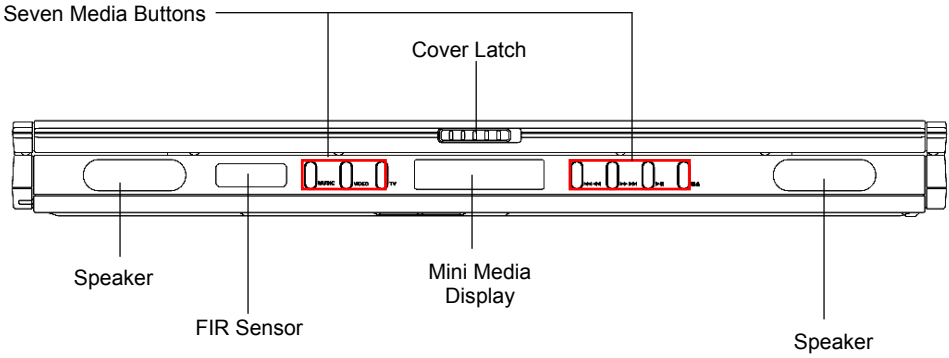
If you want to know more on how this notebook computer operates as a media center, please read the other user's guide.

1.2 Examining Your Computer

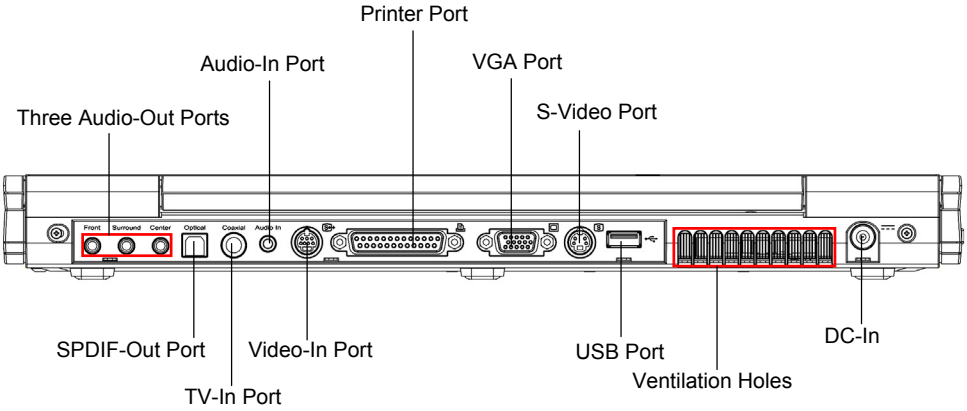
Before you start using your computer, you need to get acquainted with your **notebook**'s main features and interfaces:



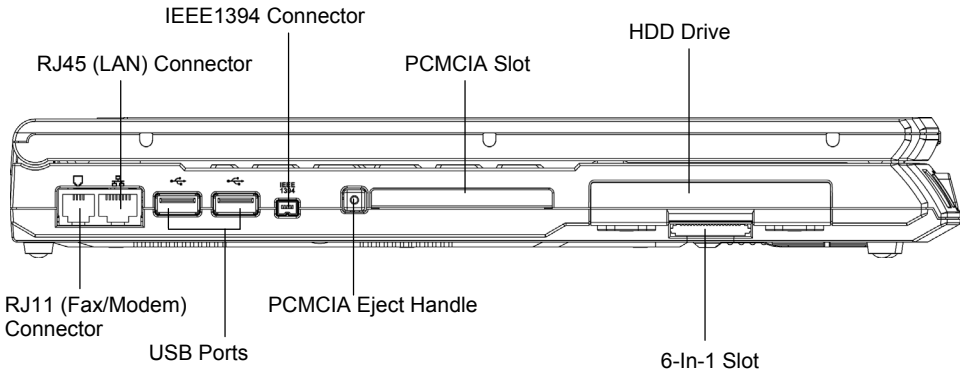
Panoramic View



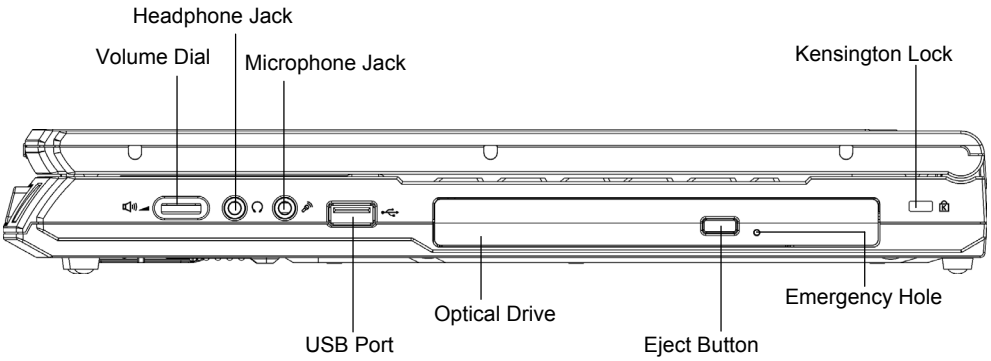
Front View



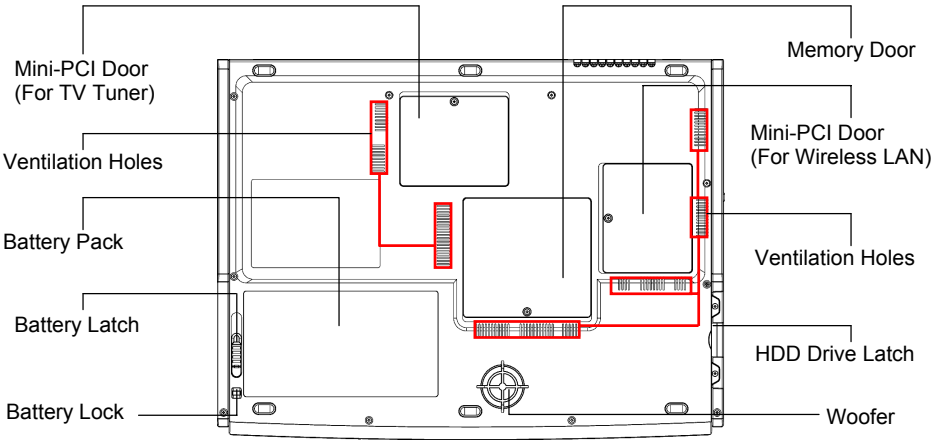
Rear View



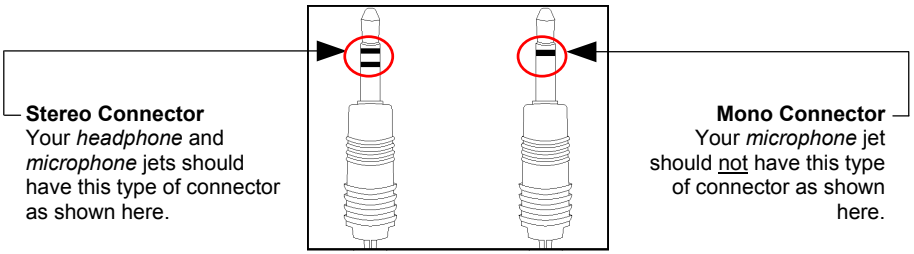
Left View



Right View



Bottom View


Stereo Connector
Your *headphone* and *microphone* jets should have this type of connector as shown here.
Mono Connector
Your *microphone* jet should not have this type of connector as shown here.

Two Types Of Audio Jet

1.3 The Three System LEDs

The Power On LED

Below is how the LED would behave in different situations:

Off	System is powered off, or in **Hibernate** mode.
Green	System is in full operation.
Green Blinking	System is in **Standby** mode.
Yellow	Battery pack is consuming down to 10% level, and system is in full operation.
Yellow Blinking	Battery pack is consuming down to 10% level, and system is in **Standby** mode.
Amber	Battery pack is consuming down to 3% level, and system is in full operation.
Amber Blinking	Battery pack is consuming down to 3% level, and system is in **Standby** mode.

The Wireless LED

This LED would be lit when the wireless function and/or bluetooth function is activated.

The Battery Pack LED

Below is how the LED would behave in different situations:

On	Battery pack is being recharged: fast-charge or pre-charge.
Blinking	• Battery pack is in low power capacity; or • Battery pack error.
Off	Battery pack is not under recharge.

Note: The **Three System LEDs** are located at bottom center of the LCD display screen between the left/right hinges of the LCD display panel. For exact location, please refer to the **Panoramic View** diagram in *Chapter 1.2*. The **Three System LEDs** are also visible on the rear side of the LCD panel.

For more details on **Standby** and **Hibernate**, please refer to **Power Options** in the **Control Panel** of your Microsoft Windows operating system.

1.4 The Five Status LEDs

The HDD/ODD LED
The LED would be lit when the system is accessing the hard disk drive, or the ODD (optical disk drive) drive.

Media Card Access LED
The LED would be lit when the system is accessing the media card. Media card can be inserted into the 5-in-1 slot located on the left side of the system unit.

The Caps Lock LED
The LED would be lit when the keyboard is in **Caps Lock** mode. In this mode, all characters you type are in uppercase.

The Num Lock LED
The LED would be lit when the keyboard is in **Num Lock** mode. In this mode, the embedded numeric keypads can be used.

The Scroll Lock LED
The LED would be lit when the keyboard is in **Scroll Lock** mode. In this mode, you can lock the cursor position while scrolling through a document with the arrow-scroll keys.

Note: The **Five Status LEDs** are located near the **Three System Buttons**. For exact location, please refer to the **Panoramic View** diagram in *Chapter 1.2*.

1.5 The Three System Buttons

Power Button
This **Power Button** is programmable by user. For detail on how to program this button, please refer to the **Power Options** of **Control Panel** in **Windows System**.

Internet Button
Press this button to activate the internet function.

Email Button
Press this button to activate the email function.

Note: The **Three System Buttons** are located near the top right of keyboard. For exact location, please refer to the **Panoramic View** diagram in *Chapter 1.2*.

1.6 The Seven Media Buttons And Mini Media Display

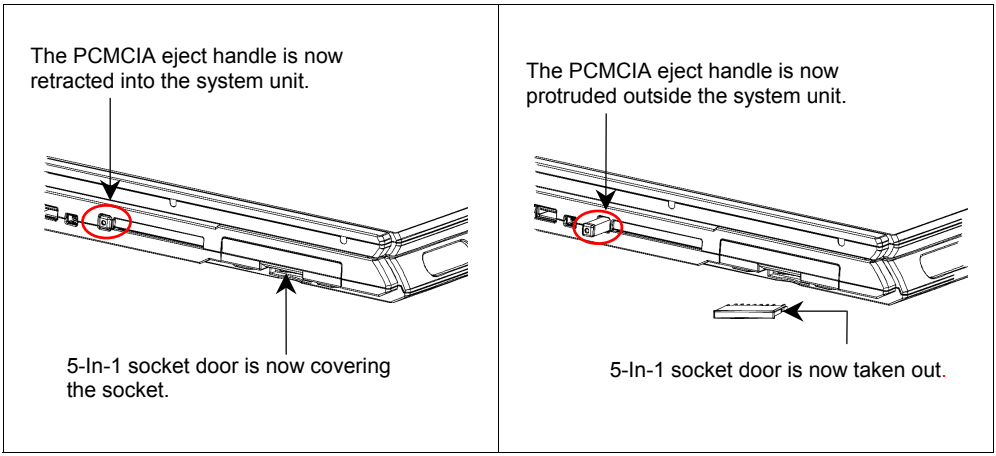
MUSIC	**Music Button** Press this button to run the **Music Program**.
VIDEO	**Video Button** Press this button to run the **Movie Program**.
PHOTO	**Photo Button** Press this button to run the **Photo Program**.
⏮ ◀◀	**Rewind/Previous Track Button**
▶▶ ⏭	**Forward/Next Track Button**
▶/⏸	**Play/Pause Button**
■⏏	**Stop/Eject Button**

Mini Media Display	This mini-display is for displaying information on the media being played back.

Note: The **Seven Media Buttons** are located between the two speakers. For exact location, please refer to the **Panoramic View** diagram in *Chapter 1.2*.

Behaviors of these buttons and the **Mini-Media Display** vary a lot depending on which media programs you are running. For details on these buttons and the **Mini Media Display**, please refer to the other user's guide.

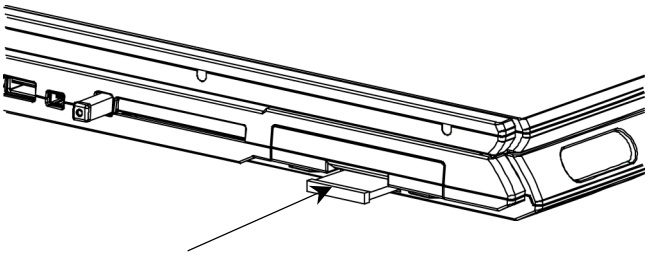
1.7 Attention On PCMCIA And 5-In-1 Sockets


The PCMCIA eject handle is now retracted into the system unit.
5-In-1 socket door is now covering the socket.
The PCMCIA eject handle is now protruded outside the system unit.
5-In-1 socket door is now taken out.

Please observe below safety measures:

- Make sure the PCMCIA eject handle does not protrude out at all times, unless you are using the handle to eject PCMCIA card. A protruded handle is prone to external interference; such as ramming by an inkjet printer or external keyboard.
- When no card (SD card/ SD-IO card/ MS card/ MS Pro card/ MMC card) is not inserted into the 5-in-1 socket, make sure this socket is covered by the "5-in-1 socket door" as supplied together with this **notebook**. The purpose of this "5-in-1 socket door" is to prevent foreign matters from entering into the system unit through this socket, when no card is inserted.

1.8 Attention When Inserting Media Card



Please observe below measure:

- When you insert media card (SD card/ SD-IO card/ MS card/ MS Pro card/ MMC card) into the socket as shown, make sure the topside (the label side) of the media card is facing downward.

1.9 The <Fn> Key

The <**Fn>** Function Key is located at the bottom-left corner of the keyboard. This key is used together with other keys to activate certain pre-defined functions. To activate these functions, press and hold down **<Fn>** together with the keys described below:

Bluetooth
Press this key combination (*Fn+F1*) to activate the Bluetooth function.

Wireless LAN
Press this key combination (*Fn+F2*) to activate the wireless LAN function.

LCD/CRT Switch
Press this key combination (*Fn+F3*) to switch between LCD only, CRT only, and LCD/CRT simultaneously.

Warning Switch
Press this key combination (*Fn+F6*) to switch off and to switch on the warning beep.

Chapter 2 Battery

2.1 Battery Pack

Your **notebook** is equipped with a high-energy rechargeable **Lithium Ion** (**Li-Ion**) battery pack. In general, the battery life of a fully charged battery pack may vary from different configurations (CPU, HDD, Memory etc.) and system utilization (especially I/O activities).

2.2 Recharging The Battery Pack

Your **notebook** supports both on-line and off-line recharge. Follow the procedure below to recharge battery:

- Make sure the battery pack is installed in the **notebook**.
- Connect the AC adapter to the **notebook** and to an electrical outlet.

When a battery pack is being recharged, its battery LED (located near the bottom center of display panel) would be lit up. For details on the LEDs, please refer to *Chapter 1.3*. When the notebook is OFF, a depleted Li-Ion battery will take three hours to recharge.

2.3 Questions and Answers:

Q: I can feel the heat next to the **Touch Pad** during recharge. Is it normal?

A: The battery will generate heat during recharging and discharging. There is a protection circuit inside the **notebook** to prevent overheating. User needs not to worry.

Q: My battery operation time is not as long as it should be. Why?

A: The battery is heat sensitive and can only be charged to its maximum if the battery and its environmental temperature remain within 15-25°C (59-77°F). The more the temperature deviates from this range during recharging, the less chance there is for the battery to be fully charged. In order to recharge the pack to its full capacity, users are requested to cool down the unit by unplugging the AC Adapter. Wait until it is cooled down. Then plug in the AC Adapter to start recharging again.

Q: I did not use my spare battery for a few days. Even though it was fully recharged, there wasn't as much power left as a newly charged one. Why?

A: The batteries will self-discharge (1% per day for Li-Ion) when they are not being recharged. To make sure a battery pack is fully charged, recharge before use. Always keep the battery inside the **notebook** and have the AC adapter connected whenever possible.

Q: I did not use my spare battery for months. I have problem in recharging it.

A: If you happen to leave your battery pack to go through an extended period of self-discharge, say more than three months, the battery voltage level will become too low and needs to be **Pre-Charged** (to bring the battery voltage level high enough) before it automatically (for Li-Ion only) resumes its normal **Fast Charge**. **Pre-Charge** may take 30 minutes. **Fast Charge** usually takes 2~3 hours.

2.4 Battery Maintenance

To maintain the battery pack's maximum capacity, you should occasionally let the **notebook** deplete its battery power completely before recharging.

To carry out a complete depletion of the battery, disconnect the AC adapter and let your **notebook** consume the remaining battery power. To speed up the depletion, use the HDD as much as possible, and the LCD should be set as bright as possible. When the battery is empty, wait for the **notebook** to cool down (especially the battery). The temperature should be within 15-25°C (59-77°F). Then insert the AC adapter to recharge the battery.

2.5 Power Consumption

The **Windows® XP**, the latest Windows operating systems, has incorporated the latest state-of-the-art **ACPI (Advanced Configuration Power Interface)** power management methodology. In order to fully utilize the power of your battery packs, it would be a good idea for you to spend sometime to acquire a basic understanding of the power management concept from your operating system.

In **Windows® Operating Systems**, you can go through **Power Options** of the **Control Panel** according to the version of **Windows® Operating System** the **notebook** applies. We shall not describe them in details. The **Power Options** in **Windows® XP** are further divided into as below:

- Power Schemes
- Alarms
- Power Meter
- Advanced
- Hibernate

2.6 Reducing Power Consumption

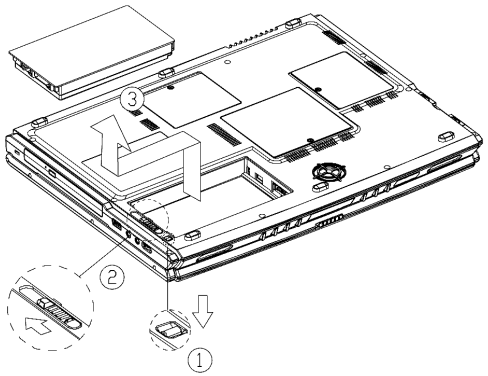
Although your **notebook** (together with the operating system) is capable of power conservation, there are measures you can take to reduce the power consumption:

- Use the AC power whenever possible.
- Lower the intensity of the LCD backlight. A very bright screen translates to higher power usage.
- Try to use the HDD or the PCMCIA drive to read and write files, instead of using the external USB FDD.

Note: The battery pack should be locked in the battery compartment all the time.

2.7 Removing The Battery Pack

This battery pack can easily be removed and replaced. Make sure that the computer is properly shutdown before changing the battery pack. If you would like to change the battery pack while power is on, make sure this battery pack is not the only electrical source to the system unit. Follow the steps below to remove the battery pack.



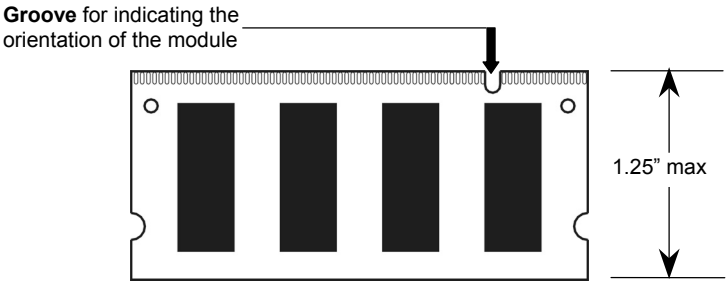
- Have the system properly shutdown.
- Flip the system upside down as shown.
- Press the handle to release battery latch as shown by ***#1***.
- Maintain the handle in released position.
- Push the battery latch to unlock as shown by ***#2***. The battery pack would pop up a little bit.
- Remove the battery pack as shown by ***#3***.

To insert the battery pack, reverse the steps above.

Chapter 3 Memory

Your **notebook** is equipped with a configurable memory unit. The industry standard **JEDEC DDR S.O.DIMM** memory module sockets are available for memory upgrade to 2048MB. The table below illustrates all the possible ways system memory can be configured.

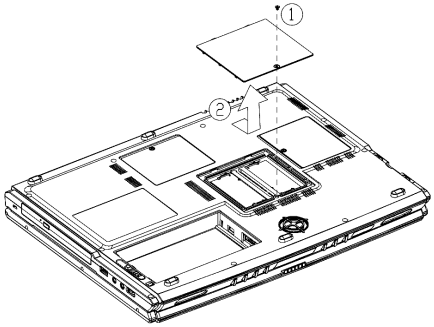
Total Memory	Socket#1	Socket#2
256MB	0MB	256MB
256MB	256MB	0MB
512MB	0MB	512MB
512MB	256MB	256MB
512MB	512MB	0MB
768MB	256MB	512MB
768MB	512MB	256MB
1024MB	0MB	1024MB
1024MB	512MB	512MB
1024MB	1024MB	0MB
1280MB	256MB	1024MB
1280MB	1024MB	256MB
1536MB	512MB	1024MB
1536MB	1024MB	512MB
2048MB	1024MB	1024MB



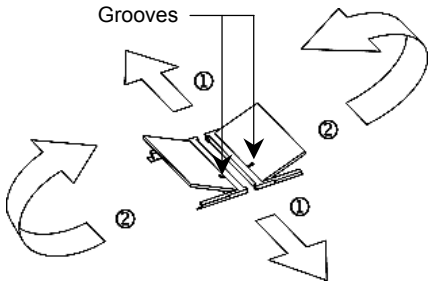
DDR S.O. DIMM Memory Module

3.1 Removing Memory Module

Below is the procedure on how to remove the memory module.



- Make sure the system is properly shutdown.
- Flip the system upside down as shown.
- Remove the battery pack as shown in ***Chapter 2***.
- Remove the screw as shown by ***#1***.
- Slide and remove the memory door as shown by ***#2***.



- Press the spring-locks sideways as shown by ***#1***.
- The memory modules would pop up as shown by ***#2***.
- Remove the memory modules.

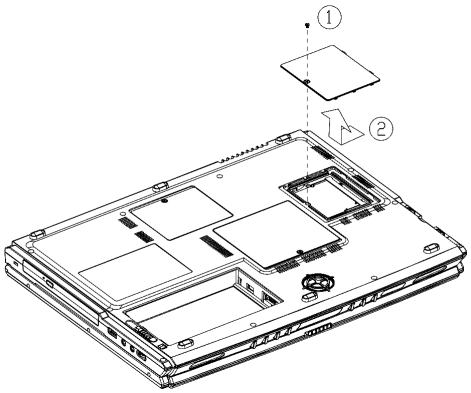
To insert the memory module, reverse the steps above.

Chapter 4 Mini-PCI Modules

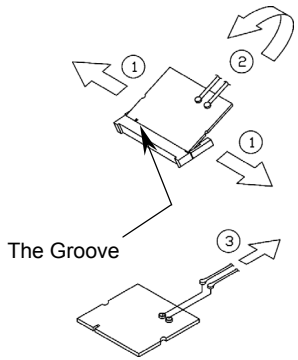
Your **notebook** is equipped with two sets of optional mini-PCI socket. One mini-PCI socket is for TV tuner only. And another mini-PCI socket is for the wireless LAN only.

4.1 Removing Mini-PCI Wireless LAN Module

Below is the procedure on how to remove the mini-PCI wireless LAN module.



- Make sure the system is properly shutdown.
- Flip the system upside down as shown.
- Remove the battery pack as shown in ***Chapter 2***.
- Remove the screw as shown by ***#1***.
- Slide and remove the compartment door as shown by ***#2***.

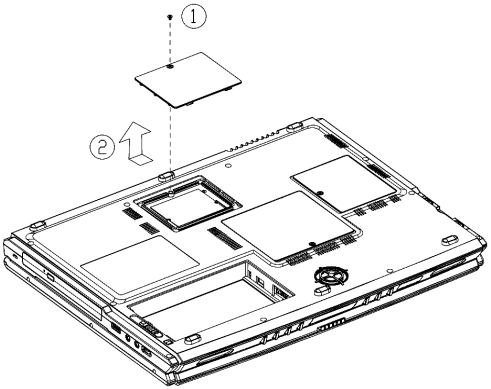


- Press the spring-locks sideways as shown by ***#1***.
- The Mini-PCI Wireless LAN module would pop up as shown by ***#2***.
- Remove the Mini-PCI Wireless LAN module.
- Disconnect the two cables as shown by ***#3***. Note, there are two types of mini-PCI module. Externally, they look slightly different; especially on the locations of the cable connections.

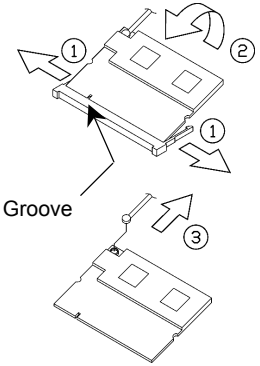
To insert the mini-PCI wireless LAN module, reverse the steps above.

4.2 Removing Mini-PCI TV Tuner Module

Below is the procedure on how to remove the mini-PCI TV tuner module.



- Make sure the system is properly shutdown.
- Flip the system upside down as shown.
- Remove the battery pack as shown in ***Chapter 2***.
- Remove the screw as shown by ***#1***.
- Slide and remove the compartment door as shown by ***#2***.



- Press the spring-locks sideways as shown by ***#1***.
- The Mini-PCI TV Tuner module would pop up as shown by ***#2***.
- Remove the Mini-PCI TV tuner module.
- Disconnect the cable as shown by ***#3***. Note, different types of Mini-PCI TV tuner module would have slight difference; especially on the locations of the cable connections.

To insert the mini-PCI TV tuner module, reverse the steps above.

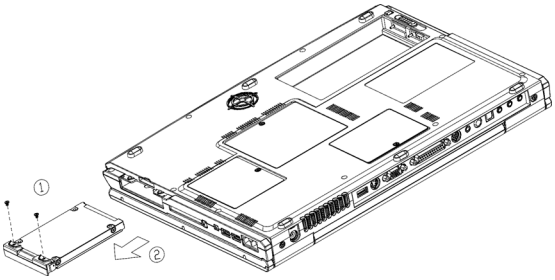
Note: This **notebook** supports three types of TV tuner: the analog type, the digital type, and the satellite (both analog/digital) type. The TV tuner modules for analog type and digital type have one cable connection as shown above in the second diagram. The satellite type of TV tuner module has two connectors.

Chapter 5 The HDD Drive

Your **notebook** is equipped with an industry standard 2.5”/9.5mm hard disk drive.

5.1 Removing The Hard Disk Drive

Below is the procedure on how to remove the hard disk drive.



- Make sure the system is properly shutdown.
- Flip the system upside down as shown.
- Remove the battery pack as shown in ***Chapter 2***.
- Remove the two screws as shown by ***#1***.
- Remove the HDD drive as shown by ***#2***.

To insert the HDD drive, reverse the steps above.

This page is left blank intentionally.

Appendix A - Agency Regulatory Notices

A.1 Safety Instructions

CAUTION: Please read these safety instructions carefully.

CAUTION: Please keep this User's Manual for future reference.

CAUTION: Please disconnect this equipment from AC outlet before cleaning. DO NOT use liquid or sprayed detergent for cleaning. Use a clean moistened cloth.

CAUTION: The wall socket used should be positioned near the equipment and should be easily accessible.

CAUTION: Please keep this equipment free from humidity.

CAUTION: Place the equipment on a reliable surface at all times. A drop or fall can cause severe damage.

WARNING: The openings of the enclosure are for air ventilation and are meant to protect the equipment from overheating. DO NOT COVER THE VENTILATION OPENINGS.

CAUTION: Verify the voltage of the power source before connecting the unit to any power outlet.

WARNING: DO NOT step on or place anything over the power cord.

CAUTION: All cautions and warnings on the equipment should be noted.

WARNING: If the equipment is not used for a long period of time, disconnect the equipment from the power source to avoid damage from power spikes.

WARNING: NEVER pour any liquid into any openings; a fire or electrical shock is possible.

WARNING: For safety reasons, other than pre-designated ports, doors, and the equipment should be opened only through qualified service personnel.

CAUTION: If one of the following situations should arise, the equipment should be checked by an authorized technician:

a. The power cord or plug is damaged.
b. Liquid has penetrated into the equipment.
c. The equipment has been exposed to excessive moisture.
d. The equipment does not work well, or you fail to get it to work according to user's manual.
e. The equipment has been dropped or damaged.
f. The equipment has obvious signs of breakage.

CAUTION: DO NOT LEAVE THE EQUIPMENT IN TEMPERATURES BELOW -20°C(-4°F) OR ABOVE 60°C(140°F). IT MAY CAUSE DAMAGE TO THE EQUIPMENT.

WARNING: Never install modem/telephone wiring during a lightning storm.

WARNING: Never install modem/telephone jacks in wet locations unless the jack is specially designed for wet locations.

WARNING: Never touch un-insulated modem/telephone wires or terminals unless the modem/telephone line has been disconnected at the network interface.

CAUTION: Use caution when installing or modifying modem/telephone lines.

WARNING: Avoid using a modem/telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.

WARNING: This computer contains an internal lithium battery-powered real-time circuit. There is a risk of explosion and injury if the battery is incorrectly replaced or handled. Do not attempt to recharge, disassembled, immerse in water, or dispose of it in fire. Replacement should be done through your notebook dealer.

WARNING: THE **CD-ROM/DVD-ROM** IN THIS **NOTEBOOK** EMPLOYS A **LASER** SYSTEM.

a. To ensure proper use of this product, please read the relevant instructions carefully and retain for future reference.
b. Should the unit ever require maintenance, contact your local dealer.
c. Use of controls, adjustments or the performance of procedures other than those specified may result in hazardous radiation exposure.
d. To prevent direct exposure to Laser Beam, do no try to open the enclosure.

CAUTION: The internal CD-ROM/DVD-ROM drive is classified as a **CLASS 1 LASER PRODUCT**. Label is located on the outside of the CD-ROM/DVD-ROM drive with the following wordings:

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT

WARNING: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions. Explosionsgefahr bei unsachgemäßen Austausch der Batterie. Ersatz nur durch denselben oder einem vom Hersteller empfohlenem ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

WARNING: Your **notebook** contains a Ni-MH or Li-Ion battery pack. There is a risk of fire and chemical burn if the battery pack is handled improperly. Do not disassemble, crush, puncture, short external contact, dispose of in water or fire, or expose it to temperature higher than 60°C.

WARNING: Handle the battery pack very carefully. Avoid touching the metal leads on the connector of the battery case.

CAUTION: Use only approved AC Adapter with your notebook. Using the wrong type of AC Adapter may cause serious damage to your notebook.

CAUTION: The AC Adapter can accept a line voltage ranging from 100V to 240V and is compatible with most international power sources. If you are unsure whether your power source is compatible, please contact the local dealer for assistance.

CAUTION: To reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord.

CAUTION: For Continued Protection Against Risk of Fire, Replace Only with same Type and Rating of Fuse.

CAUTION: If the computer is not sold to German area, please use only the local recognized power supply cords that are recommended by the manufacturer.

WARNING: Don't expose your **notebook** to excessive heat or coldness (frost). Don't drop, spill fluids or open the exterior of the case. This can damage the **notebook** and void the warranty.

CAUTION: This notebook computer contains a certified optical module that is equivalent as a **CLASS 1 LASER PRODUCT**.

A.2 Agency Notice

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by the manufacturer responsible for compliance may void the user's authority to operate the equipment.

Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

FCC RF Radiation Exposure Statement

- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- This equipment complies FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

USA And Canada Safety Requirements And Notices

The FCC with its action in ET Docket 93-62 has adopted a safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC certified equipment. The Intel PRO/Wireless LAN MiniPCI Adapter products meet the Human Exposure limits found in OET Bulletin 65, 2001, and ANSI/IEEE C95.1, 1992. Proper operation of this radio according to the instructions found in this manual will result in exposure substantially below the FCC's recommended limits.

The following safety precautions should be observed:

- Do not touch or move antenna while the unit is transmitting or receiving.
- Do not hold any component containing the radio such that the antenna is very close or touching any exposed parts of the body, especially the face or eyes, while transmitting.
- Do not operate the radio or attempt to transmit data unless the antenna is connected; if not, the radio may be damaged.

Use in specific environments:

- The use of wireless devices in hazardous locations is limited by the constraints posed by the safety directors of such environments.
- The use of wireless devices on airplanes is governed by the Federal Aviation Administration (FAA).
- The use of wireless devices in hospitals is restricted to the limits set forth by each hospital.

Antenna use:

- In order to comply with FCC RF exposure limits, low gain integrated antennas should be located at a minimum distance of 20 cm (8 inches) or more from the body of all persons.
- High-gain, wall-mount, or mast-mount antennas are designed to be professionally installed and should be located at a minimum distance of 30 cm (12 inches) or more from body of all persons. Please contact your professional installer, VAR, or antenna manufacturer for proper installation requirements.

Explosive Device Proximity Warning

Warning: Do not operate a portable transmitter (such as a wireless network device) near unshielded blasting caps or in an explosive environment unless the device has been modified to be qualified for such use.

Use On Aircraft Caution

Caution: Regulations of the FCC and FAA prohibit airborne operation of radio-frequency wireless devices because their signals could interfere with critical aircraft instruments.

Canadian Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Avis Canadien

Cet appareil numerque de la classe B respecte toutes les exigences du Reglement sur le materiel brouilleur du Canada.

Canada Radio Frequency Interference Requirements

This Class B digital apparatus complies with Canadian ICES-003, Issue 2, and RSS-210, Issue 4 (Dec. 2000).

"To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing."

Cet appareil numérique de la classe B est conforme à la norme NMB-003, No. 2, et CNR-210, No. 4 (Dec. 2000).

"Pour empêcher que cet appareil cause du brouillage au service faisant l'objet d'une licence, il doit être utilizé à l'intérieur et devrait être placé loin des fenêtres afin de fournir un écran de blindage maximal. Si le matériel (ou son antenne d'émission) est installé à l'extérieur, il doit faire l'objet d'une licence."

European Union CE Notice

Product with the CE Marking comply with the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community and if this product has telecommunication functionality, the R&TTE Directive (1999/5/EC).

Compliance with these directives implies conformity to the following European Norms (in parentheses are the equivalent international standards and regulations):

- EN55022 (CISPR 22)— Electromagnetic Interference
- EN55024 (IEC61000-4-2,3,4,5,6,8,11)— Electromagnetic Immunity
- EN61000-3-2— (IEC61000-3-2)-Power Line Harmonics
- EN61000-3-3— (IEC61000-3-3)-Power Line Flicker
- EN60950 (IEC60950) — Product Safety

For devices with built-in wireless equipment, the following additional standards apply:

- ETSI301489-17: General Emissions for Radio Equipment
- EN60950: Safety
- ETSI300328-2: Technical Requirements for Radio Equipment

CE Caution: Due to the fact that the frequencies used by 802.11b wireless LAN devices may not yet be harmonized in all countries, 802.11b products are designed for use only in specific countries or regions, and are not allowed to be operated in countries or regions other than those of designated use. As a user of these products, you are responsible for ensuring that the products are used only in the countries or regions for which they were intended and for verifying that they are configured with the correct selection of frequency and channel for the country or region of use. And deviation from permissible settings and restrictions in the country or region of use could be an infringement of local law and may be punished as such.

The wireless LAN device can currently be used indoors only in the following departments of mainland France.

01	Ain	36	Indre	69	Rhône
02	Aisne	37	Indre et Loire	70	Haute Saône
03	Allier	39	Jura	71	Saône et Loire
05	Hautes Alpes	41	Loir et Cher	72	Sarthe
08	Ardennes	42	Loire	75	Paris
09	Ariège	45	Loiret	77	Seine et Marne
10	Aube	50	Manche	78	Yvelines
11	Aude	54	Meurthe et Moselle	79	Deux Sèvres
12	Aveyron	55	Meuse	82	Tarn et Garonne
16	Charente	57	Moselle	84	Vaucluse
19	Corrèze	58	Nièvre	86	Vienne
2A	Corse Sud	59	Nord	88	Vosges
2B	Haute Corse	60	Oise	89	Yonne
21	Côte d'Or	61	Orne	90	Territoire de Belfort
24	Dordogne	63	Puy du Dôme	91	Essonne
25	Doubs	64	Pyrénées Atlantique	92	Hauts de Seine
26	Drôme	65	Haute Pyrénées	93	Seine St Denis
27	Eure	66	Pyrénées Orientales	94	Val de Marne
32	Gers	67	Bas Rhin		
35	Ille et Vilaine	68	Haut Rhin		

The wireless LAN device cannot currently be used in any departments of mainland France other than those listed above.

Maximum allowable EIRP 802.11b wireless LAN cards in the mainland departments of France not shown in the table above are as follows: (See the ART website at www.art-telecom.fr for information on the French overseas territories.)

Frequency Ranges (MHz)	Indoors	Outdoors
2400 – 2446.5	10 mW	Not permitted
2446.5 – 2483.5	100 mW	100 mW on private property with Ministry of Defense approval

Japanese Notice

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DGT Statement

根據交通部 低功率管理辦法 規定：

第十四條　經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十七條　低功率射頻電機之使用不得影響飛航安全及干擾合法通信，經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

第二十條　輸入、製造低功率射頻電機之公司、商號或使用者違反本辦法規定，擅自使用或變更無線電頻率、電功率者，除依電信法規定處罰外，電信總局並得撤銷其型式認證證明或型式認證標籤。

U.S. Regulations Governing the Use of Modems

This equipment complies with Part 68 of the FCC Rules. On this equipment is a label that contains, among other information, the FCC registration number and **R**inger **E**quivalence **N**umber (**REN**) for this equipment. You must, upon request, provide this information to your telephone company.

If your telephone equipment harms the telephone network, the Telephone Company may discontinue your service temporarily. If possible, they will notify in advance. But, if advance notice is not practical, you will be notified as soon as possible. You will be informed of your right to file a compliant with the FCC.

Your telephone company may make changes in its facilities, equipment, operations, or procedures that could affect proper operation of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

The FCC prohibits this equipment to be connected to party lines or coin-telephone service.

In the event that this equipment should fail to operate properly, disconnect the equipment from the phone line to determine if it is causing the problem. If the problem is with the equipment, discontinue use and contact your dealer or vendor.

The FCC also requires the transmitter of a FAX transmission be properly identified (per FCC Rules Part 68, Sec 68.381 (C) (3)).

Japanese Modem Notice

本製品を日本で使用する場合は必ず日本国モードでご使用ください。
他国のモードをご使用になると電気通信事業法(技術基準)に違反す
行為となります。なお、ご購入時は初期値が日本国モードとなってお
ますので、そのままご利用ください。

U.K. Modem Compliance Information

This modem is approved by the secretary of state at the **D**epartment of **T**rade and **I**ndustry for connection to a single exchange line of the public switched telephone network run by certain licensed public telecommunication operators or system connected there to (Direct exchange lines only, not shared service or 1-1 carrier systems).

This modem is also suitable for connection to **P**rivate **A**utomatic **B**ranch E**x**change (**PABX**), which return secondary proceeding indication.

If this modem is to be used with a PBX which has extension wiring owned by BT, connection of the modem the PBX can only be carried out by BT; or by the authorized maintainer of the PBX unless the authorized maintainer has been given 14 days written notice that the connection is to be made by another person; and that period of notification has expired.

This modem is suitable for use only on telephone lines proved with Loop Disconnect or Multi-Frequency Dialing Facilities.

Users of this modem are advised that the approval is for connection to the **PSTN** via the telephone line interface supplied with it. Connection of a modem to the **PSTN** by any other means will invalidate the approval.

There is no guarantee of correct working in all circumstances. Any difficulties should be referred to your supplier.

Some network operators require that intended users of their network request permission to connect and for the installation of an appropriate socket.

The **R**inger **E**quivalence **N**umber (**REN**) of this modem is 1. **REN** is guide to the maximum number of apparatus that can simultaneously be connected to one telephone line. The **REN** value of each apparatus is added together, and should not exceed 4. Unless otherwise marked, a telephone is assumed to have a **REN** of 1.

This modem is only approved for use of the following facilities:

- Storage of telephone numbers for retrieval by a predator mined code.
- Initial proceed indication detection.
- Automatic calling / automatic answering.
- Tone detection.
- Loud-speaking facility.

This modem is not approved for connection to U.K./private speech-band services. This modem does not support an automatic re-dial function. Any other usage will invalidate the approval of your modem, if as a result, it then ceases to confirm to the standards against which approval was granted. The approval of this modem is invalidated if the apparatus is subject to modification in any material way not authorized by the **BABT** or if it is used with, or connected to external software that have not been formally accepted by **BABT**.